



THE COCHIN COLLEGE

Koovapadam, Kochi-2

Affiliated To Mahatma Gandhi University

Re-accredited by NAAC With B+ Grade



Fourth Cycle
NAAC Accreditation 2024

Criterion 1 Curricular Aspects

1.3 - Academic Flexibility

Metric No. 1.3.2

Percentage of students undertaking project work/field work/ internships

Projects - Botany

Submitted to



National Assessment and Accreditation Council



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KOCHI - 682 002

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Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

Declaration of Principal

This is to certify that following 33 students from The Department of Botany have completed Project work during the academic year 2023-2024

List of students who undertook project works from Department of Botany during the year 2023-24

SL NO	PROGRAMME NAME	NAME OF STUDENT	PROJECT WORK/ FIELD/INTERNSHIP
1	BSc Botany	Aashil.Ambujakshan	PROJECT WORK
2	BSc Botany	Rahmath.A.N	PROJECT WORK
3	BSc Botany	Nayana Rajesh	PROJECT WORK
4	BSc Botany	Alpha Antony	PROJECT WORK
5	BSc Botany	Rahila Beevi	PROJECT WORK
6	BSc Botany	Nihara pramod	PROJECT WORK
7	BSc Botany	Akash Krishna C.R	PROJECT WORK
8	BSc Botany	Murshida Muhammed PM	PROJECT WORK
9	BSc Botany	Safin CJ	PROJECT WORK
10	BSc Botany	Vishnu kunjappan P.j	PROJECT WORK
11	BSc Botany	Soumya sibi	PROJECT WORK
12	BSc Botany	Aseefa.M.A	PROJECT WORK
13	BSc Botany	Jaseela Afzal	PROJECT WORK
14	BSc Botany	AISHWARYA KM	PROJECT WORK
15	BSc Botany	Sruthi T A	PROJECT WORK
16	BSc Botany	KRIPA MARIA JUDE	PROJECT WORK
17	BSc Botany	SAFANA K S	PROJECT WORK
18	BSc Botany	Mary sandriya	PROJECT WORK
19	BSc Botany	Chris Lonappan	PROJECT WORK
20	BSc Botany	MIZIRIA TZ	PROJECT WORK
21	BSc Botany	Gireesh G	PROJECT WORK
22	BSc Botany	Arundhathy Devanandana	PROJECT WORK
23	BSc Botany	ASNA A SURESH	PROJECT WORK
24	BSc Botany	Sumayya Abdul salam	PROJECT WORK
25	BSc Botany	Jerin j Samuel	PROJECT WORK
26	BSc Botany	Krishnapriya A S	PROJECT WORK
27	BSc Botany	SWETHA SINDAS	PROJECT WORK
28	BSc Botany	Vishnupriyan B	PROJECT WORK
29	BSc Botany	Malu . B	PROJECT WORK
30	BSc Botany	Neha shaji	PROJECT WORK
31	BSc Botany	Thasni N	PROJECT WORK
32	BSc Botany	Abhirami R S	PROJECT WORK
33	BSc Botany	Arjun.k.Janardhanan	PROJECT WORK





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CYTOTOXIC EFFECT OF *Euphorbia milii* L. ON MITOTIC CHROMOSOME

DISSERTATION

Submitted to

MAHATMA GANDHI UNIVERSITY

*In partial fulfillment of the requirement for the
award of degree of*
BACHELOR OF SCIENCE IN BOTANY

BY

AASHIL AMBUJAKSHAN

REG. NO: 210021039891



DEPARTMENT OF BOTANY
THE COCHIN COLLEGE, KOCHI-2
2021 - 2024





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CERTIFICATE

This is to certify that the Dissertation entitled CYTOTOXIC EFFECT OF *Euphorbia milii* L. ON MITOTIC CHROMOSOME is an authentic record of original research done by AASHIL AMBUJAKSHAN, under my supervision and guidance for the partial fulfillment of Bachelor of Science in Botany submitted to the Department of Botany, The Cochin College, Kochi - 2. affiliated to Mahatma Gandhi University, Kottayam. The dissertation has not formed the basis for the award of any degree, diploma, fellowship or similar title earlier. It is also certified by AASHIL AMBUJAKSHAN has fulfilled the course requirements for the Bachelor of Science of this University.

Mr. ARUNKUMAR G.
Assistant Professor
Department of Botany
The Cochin College, Kochi - 2





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KOCHI - 682 002

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Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

DECLARATION

I hereby declare that the project work entitled, CYTOTOXIC EFFECT OF *Euphorbia milii* L. ON MITOTIC CHROMOSOME is a bonafide record of the work carried out by me, under the supervision and guidance of Mr. ARUNKUMAR G., Assistant Professor, Department of Botany, The Cochin College, Kochi - 2.. The dissertation has not formed the basis for the award of any degree, diploma, fellowship or similar title earlier.

AASHIL AMBUJAKSHAN
3rd Degree Student
Department of Botany
The Cochin College, Kochi - 2





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Dr. Subhaprabha G Nair
Head of the Department
Department of Botany
The Cochin College, Kochi - 2





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ACKNOWLEDGEMENT

I express my sincere gratitude and indebtedness to my supervising Teacher Mr. ARUNKUMAR G., Department of Botany, The Cochin College, Kochi - 2, for suggesting this field of investigation, his valuable guidance, constant encouragement and whole support extended to me at every stage of my Research work.

May I avail myself for this opportunity to express my heart-felt gratitude to our Principal Prof. (Dr) Geetha M. for providing infrastructure facilities. I am also very grateful to Dr. Suprabha G. Nair., Head of the Department, Department of Botany, The Cochin College, Kochi - 2 for her inspiring encouragement.

I gratefully acknowledge the help and guidance rendered to me by all the Teachers of the Department of Botany, The Cochin College, Kochi - 2.

I also thank immensely Library staff, The Cochin College, Kochi - 2 for their co-operation.

I am also grateful to the non-teaching Staff of Botany Department for their selfless services and also grateful to my friends and colleagues for extending their help during the work.

I express my sincere thanks to Mr. Abdulresheedh, Scientist, NIT Calicut, for providing the facility to do the SEM analysis

Thanks are due to my father, mother and sister for their support and cooperation.

Above all, I bow my head before GOD for blessing me with necessary initiative to carry out this work successfully.

AASHIL AMBUJAKSHAN

3rd Degree Student, Department of Botany

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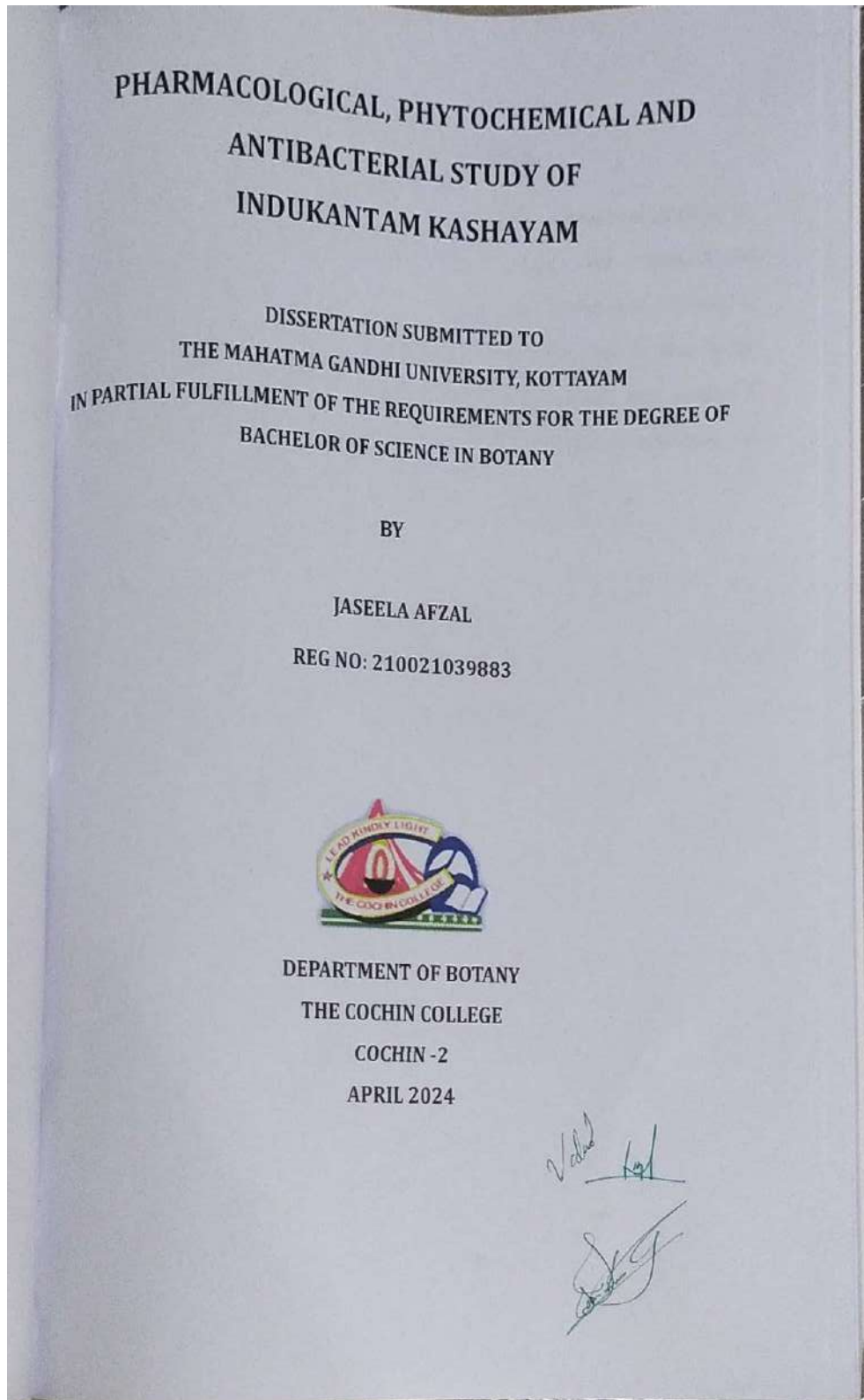
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QUALITY ANALYSIS OF TAP WATER SAMPLES COLLECTED FROM FORTKOCHI

A DISSERTATION SUBMITTED TO MAHATMA GANDHI
UNIVERSITY, KOTTAYAM, IN PARTIAL FULFILMENT
REQUIREMENTS FOR DEGREE OF BACHELOR OF SCIENCE
IN BOTANY

By,

AKASH KRISHNA C.R

210021039878



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DEPARTMENT OF BOTANY

2023-2024

*Valued
by
Principal*





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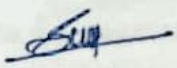
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This is to certify that the dissertation entitled "QUALITY ANALYSIS OF TAP WATER SAMPLES COLLECTED FROM FORTKOCHI" is submitted to the Department of Botany, The Cochin College, Cochin - 2 in partial fulfilment of the requirement for the award of Bachelor Degree in Botany to the Mahatma Gandhi University, Kottayam. This is a record of the project work done by Akash Krishna C.R under the supervision of Dr. Suprabha G. Nair.

Cochin - 2


 Dr. Suprabha G. Nair
 Head of the Department
 Department of Botany
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Cochin - 2

Dr. Suprabha G. Nair

Assistant Professor

Department of Botany

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QUALITY ANALYSIS OF WELL WATER SAMPLE

A DISSERTATION SUBMITTED TO MAHATMA GANDHI
UNIVERSITY, KOTTAYAM, IN PARTIAL FULFILMENT
REQUIREMENTS FOR DEGREE OF BACHELOR OF SCIENCE
IN BOTANY

BY,

MURSHIDA MUHAMMED P.M

Reg. No.210021039886



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DEPARTMENT OF BOTANY

2023-2024

Handwritten signature in green ink.





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A STUDY ON MORPHOLOGICAL AND
ANATOMICAL PROFILING OF SPECIES
Barleria prionitis L.

DISSERTATION

Submitted to

MAHATMA GANDHI UNIVERSITY

*In partial fulfilment of the requirement for the
award of degree of*
BACHELOR OF SCIENCE IN BOTANY

BY

MIZIRIA T Z

REG. NO: 210021039885



DEPARTMENT OF BOTANY
THE COCHIN COLLEGE, KOCHI - 2, KERALA, INDIA
2023 - 2024

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This is to certify that the Dissertation entitled A STUDY ON MORPHOLOGICAL AND ANATOMICAL PROFILING OF SPECIES *Barleria prionitis* L. is a authentic record of original research done by Ms. MIZIRIA T.Z. under the supervision and guidance of Mr. ARUNKUMAR G. for the partial fulfilment of Bachelor of Science in Botany submitted to Department of Botany, The Cochin College, Kochi - 2 affiliated to Mahatma Gandhi University, Kottayam. The work presented in this dissertation has not formed the basis for the award of any degree, diploma, fellowship or similar title earlier. It is also certified that Ms. MIZIRIA T.Z. has fulfilled the course requirements for the Bachelor of Science of this University.

Dr. Suprabha G. Nair.

Head of the Department

Department of Botany

The Cochin College, Kochi - 2





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Mr. ARUNKUMAR G.

Assistant Professor

Department of Botany

The Cochin College, Kochi - 2





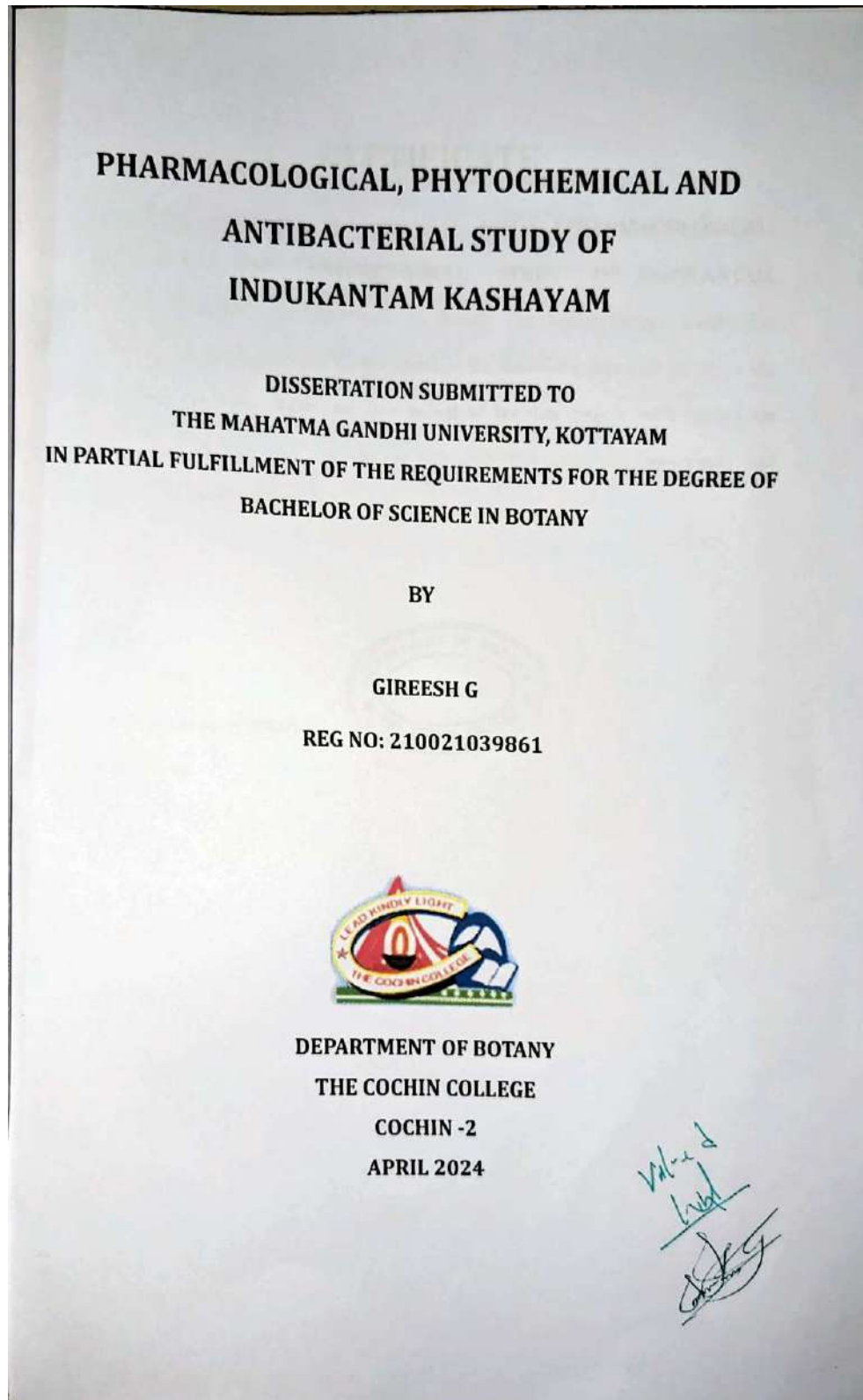
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Dr. Suprabha G Nair

Head of the Department of Botany

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Mrs. Vidhya Mahesh .R
The Department of Botany
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April 2024





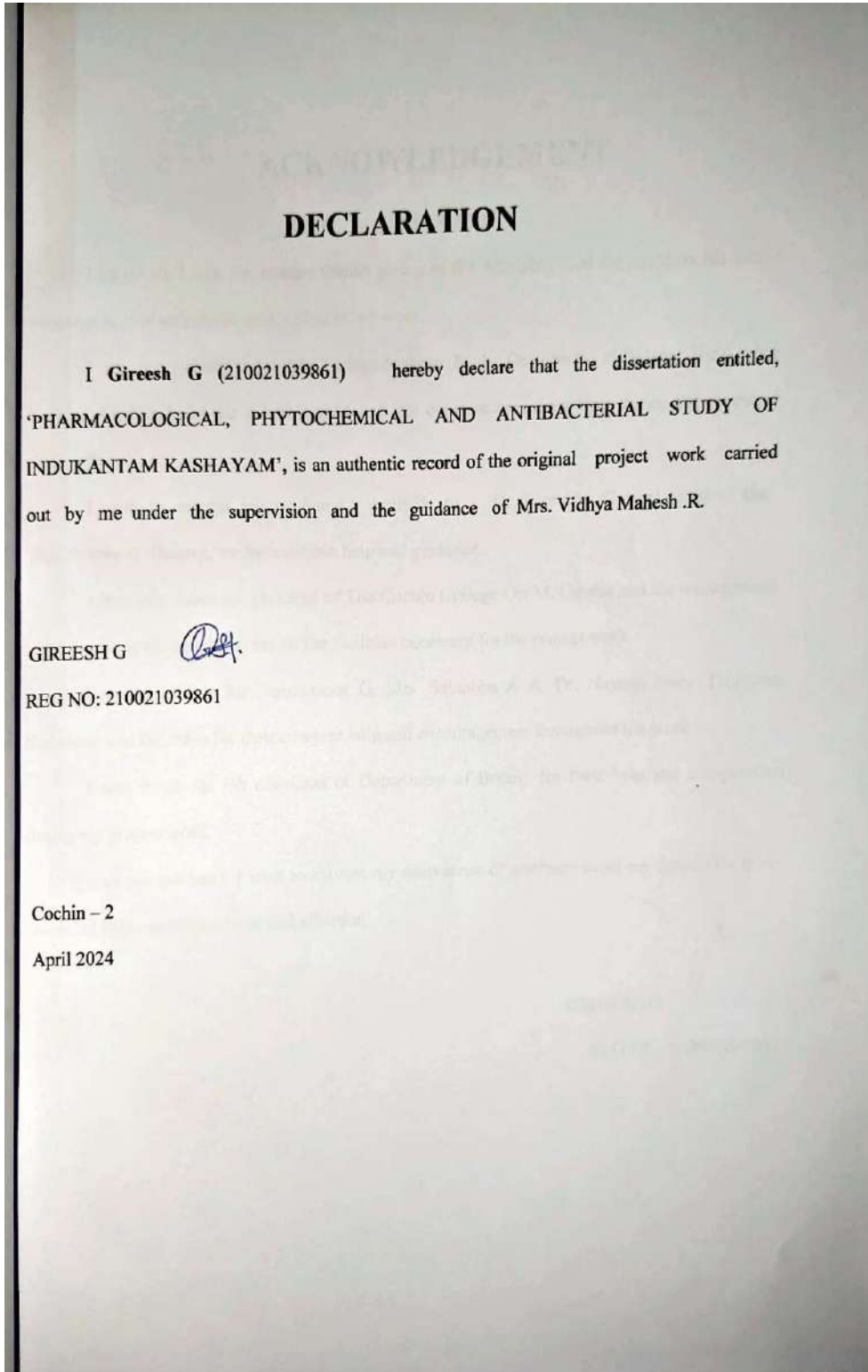
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Mrudula Menon V.
Mrudula Menon V.
Principal-in-Charge
The Cochin College



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PHARMACOLOGICAL, PHYTOCHEMICAL AND ANTIBACTERIAL STUDY OF INDUKANTAM KASHAYAM

DISSERTATION SUBMITTED TO
THE MAHATMA GANDHI UNIVERSITY, KOTTAYAM
IN PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR THE DEGREE OF
BACHELOR OF SCIENCE IN BOTANY

BY

ASNA A SURESH

REG NO: 210021039880



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APRIL 2024

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[Signature]





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Dr. Suprabha G Nair

Head of the Department of Botany

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Mrs. Vidhya Mahesh .R

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A STUDY ON MORPHOLOGICAL AND ANATOMICAL PROFILING OF SPECIES *Barleria cristata* L.

DISSERTATION

Submitted to

MAHATMA GANDHI UNIVERSITY
*In partial fulfilment of the requirement for the award of
degree of*
BACHELOR OF SCIENCE IN BOTANY

BY

ALPHA ANTONY

REG. NO: 210021039856



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2023 - 2024

Valma
10/11
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CERTIFICATE

This is to certify that the Dissertation entitled A STUDY ON MORPHOLOGICAL AND ANATOMICAL PROFILING OF SPECIES

Barleria cristata L. is a authentic record of original research done by Ms. ALPHA ANTONY under my supervision and guidance for the partial fulfilment of Bachelor of Science in Botany submitted to Department of Botany, The Cochin College, Kochi - 2 affiliated to Mahatma Gandhi University, Kottayam. The dissertation has not formed the basis for the award of any degree, diploma, fellowship or similar title earlier. It is also certified that Ms. ALPHA ANTONY has fulfilled the course requirements for the Bachelor of Science of this University.

Mr. ARUNKUMAR G.
Assistant Professor
Department of Botany
The Cochin

College, Kochi - 2





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Website: www.thecochincollege.edu.in

email: email@thecochincollege.edu.in

DECLARATION

I hereby declare that the project work entitled, A STUDY ON MORPHOLOGICAL AND ANATOMICAL PROFILING OF SPECIES *Barleria cristata* L. is a bonafide record of the work carried out by me, under the super vision and guidance of Mr. ARUNKUMAR G., Assistant Professor, Department of Botany, The Cochin College, Kochi - 2. The dissertation has not formed the basis for the award of any degree, diploma, fellowship or similar title earlier.

ALPHA ANTONY
3rd Degree Student

Department of Botany
The Cochin College, Kochi - 2





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Head of the Department
Department of Botany
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A STUDY ON MORPHOLOGICAL AND ANATOMICAL PROFILING OF SPECIES

Barleria prionitis L.

DISSERTATION

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BY

KRIPA MARIA JUDE

REG. NO: 210021039863



DEPARTMENT OF BOTANY
THE COCHIN COLLEGE, KOCHI - 2, KERALA, INDIA
2023 - 2024

V. Menon
K. J. Jude

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M. ARUNKUMAR G.

Assistant Professor

Department of Botany

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KRIPA MARIA JUDE

3rd Degree Student

Department of Botany

The Cochin College, Kochi - 2

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Department of Botany
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QUALITY ANALYSIS OF MINERAL WATER SAMPLE

A DISSERTATION SUBMITTED TO MAHATMA GANDHI
UNIVERSITY, KOTTAYAM, IN PARTIAL FULFILMENT
REQUIREMENTS FOR DEGREE OF BACHELOR OF SCIENCE
IN BOTANY

By,

RAHILA BEEVI

Reg. No.210021039870



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DEPARTMENT OF BOTANY
2023-2024

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In
Cochin*





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DECLARATION

I, Rahila beevi hereby declare that the dissertation entitled "QUALITY ANALYSIS OF MINERAL WATER SAMPLE" is an authentic record of the original research carried out by me under the supervision and guidance of Dr. Suprabha G. Nair

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Rahila beevi





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EFFECT OF PARACETAMOL AND OKAMET COMPOUND ON GROWTH OF RADICLE IN *Vigna radiata*

A DISSERTATION SUBMITTED TO MAHATMA GANDHI
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REQUIREMENTS FOR DEGREE OF BACHELOR OF SCIENCE IN
BOTANY

By,

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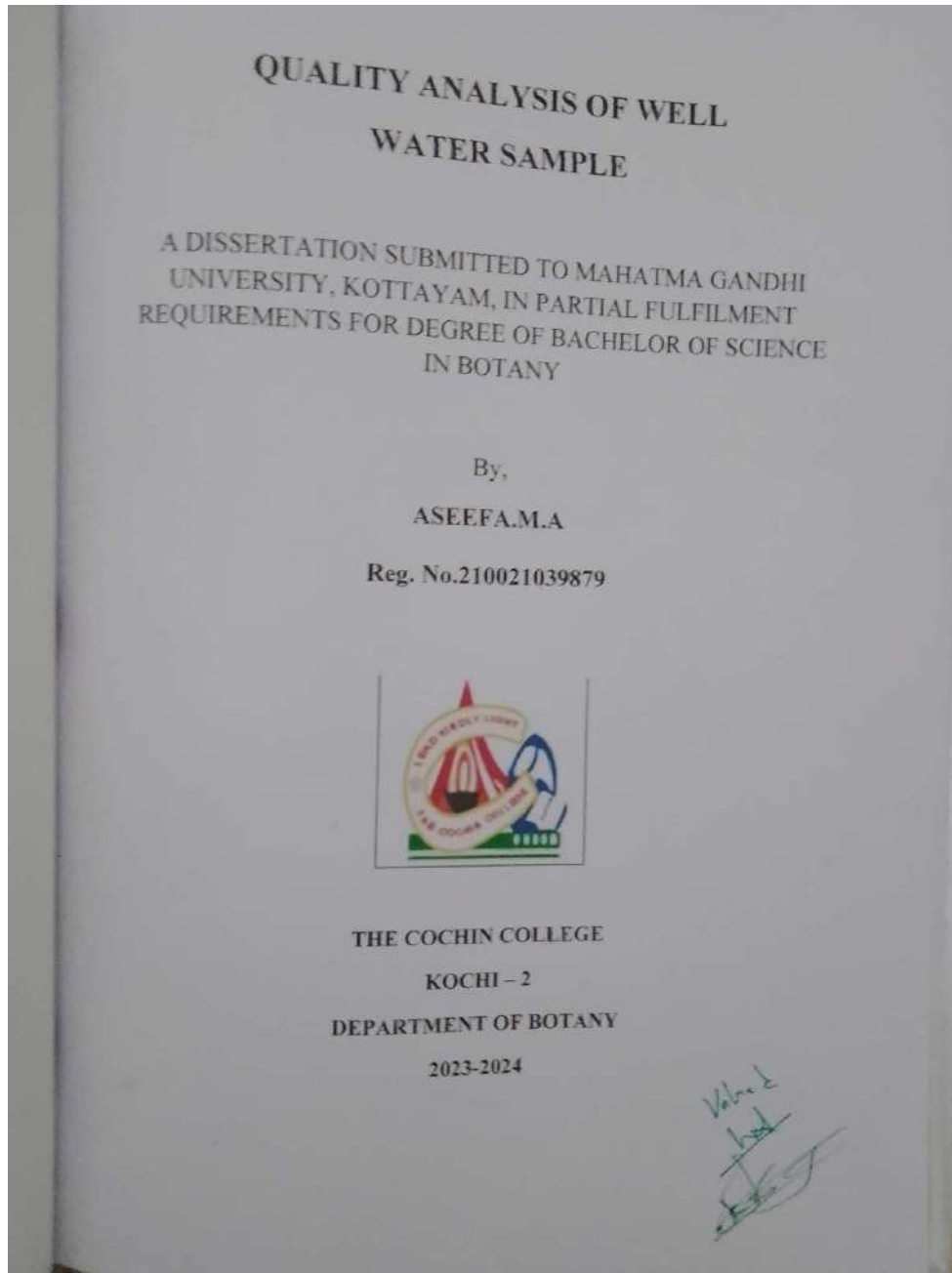
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EFFECT OF CALPOL AND TRIMOL COMPOUND ON GROWTH OF RADICLE IN *Vigna radiata*

A DISSERTATION SUBMITTED TO MAHATMA GANDHI
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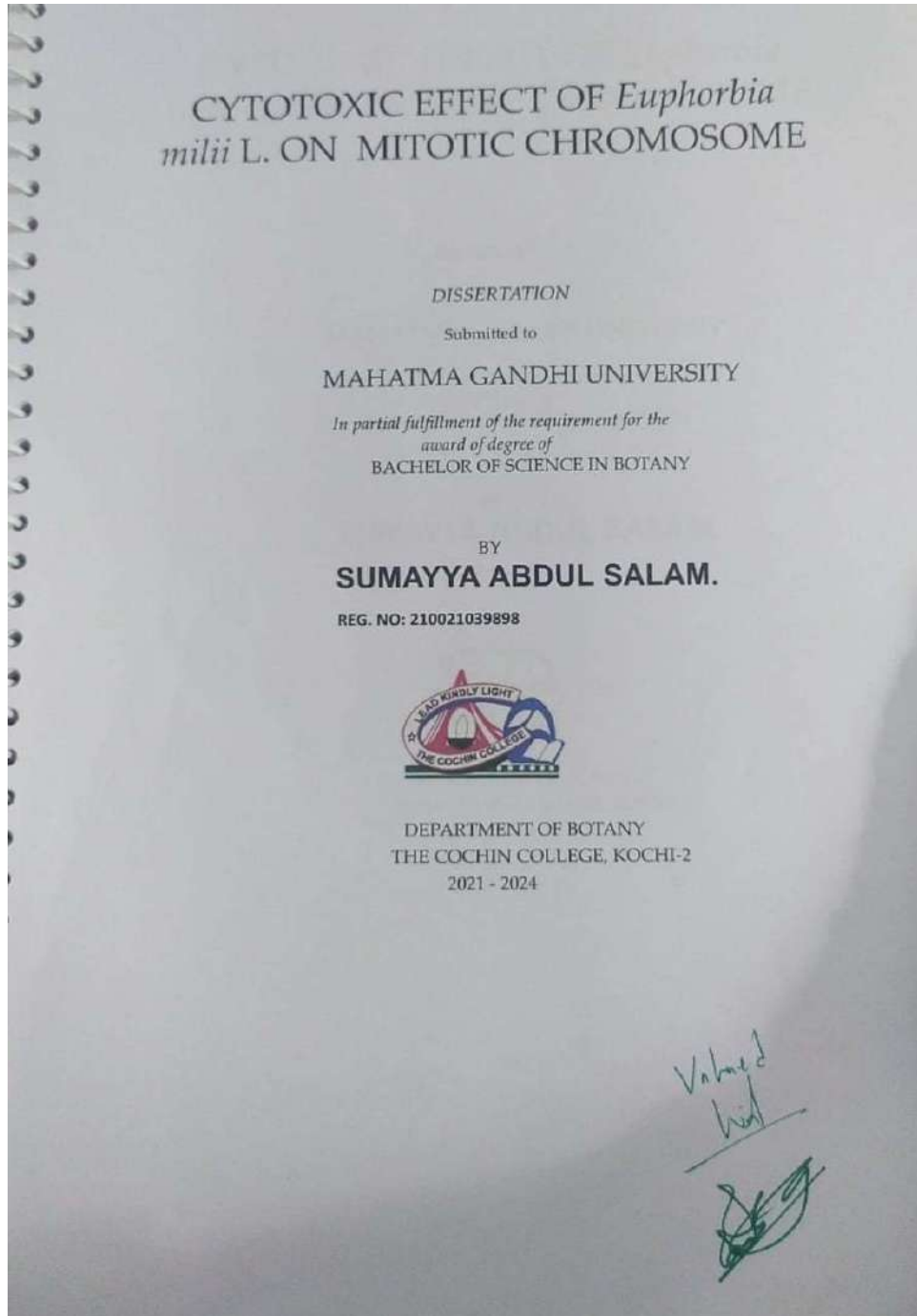
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A STUDY ON MORPHOLOGICAL AND ANATOMICAL PROFILING OF SPECIES *Barleria cristata* L.

DISSERTATION

Submitted to

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*In partial fulfilment of the requirement for the award of
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BY

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PHARMACOLOGICAL, PHYTOCHEMICAL AND ANTIBACTERIAL STUDY OF SAPTASARAM KASHAYAM

DISSERTATION SUBMITTED TO
THE MAHATMA GANDHI UNIVERSITY, KOTTAYAM
IN PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR THE
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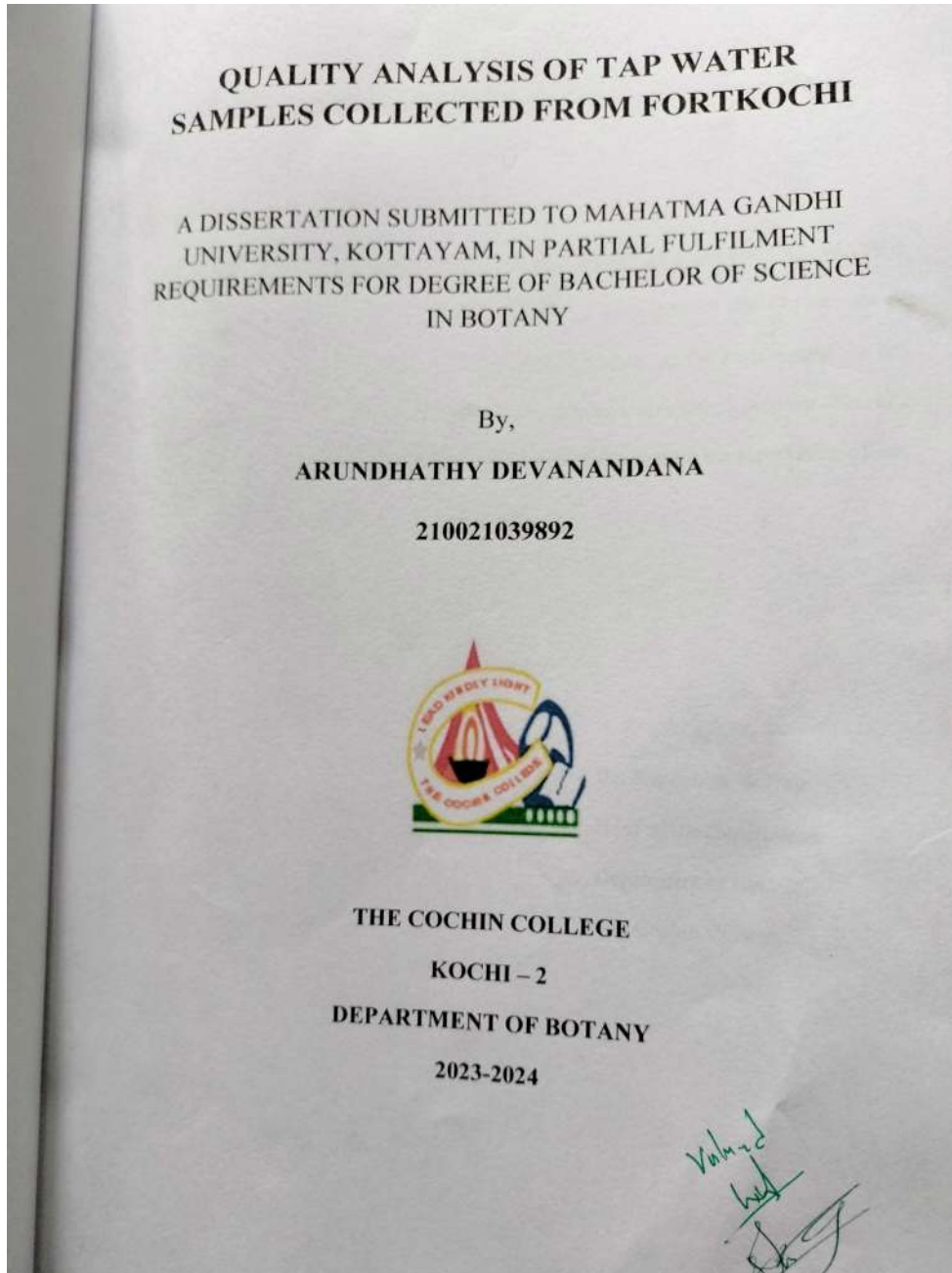
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A DISSERTATION SUBMITTED TO MAHATMA GANDHI
UNIVERSITY, KOTTAYAM, IN PARTIAL FULFILMENT
REQUIREMENTS FOR DEGREE OF BACHELOR OF SCIENCE
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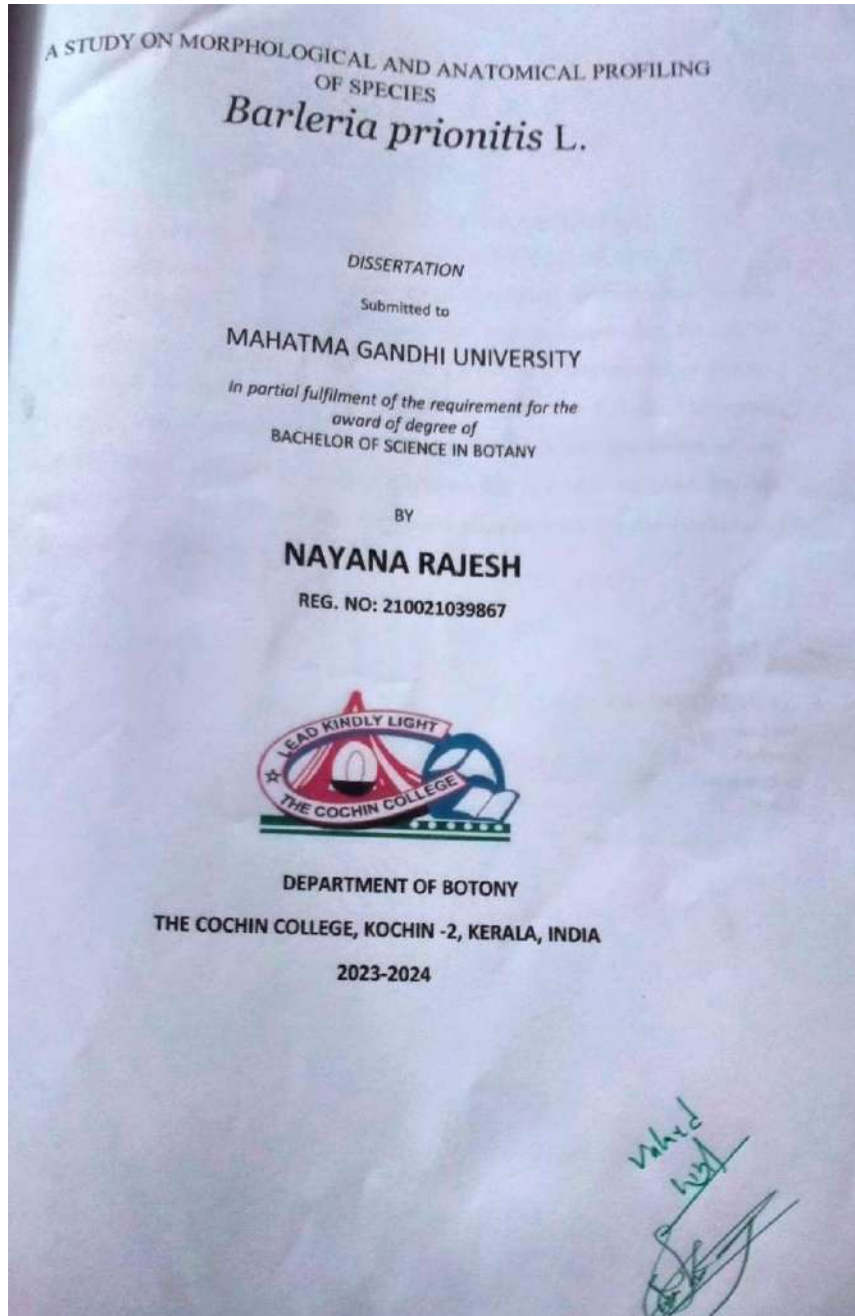
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**EFFECT OF PARACETAMOL AND OKAMET
COMPOUND ON GROWTH OF RADICLE IN *Vigna
radlata***

A DISSERTATION SUBMITTED TO MAHATMA GANDHI
UNIVERSITY, KOTTAYAM, IN PARTIAL FULFILMENT
REQUIREMENTS FOR DEGREE OF BACHELOR OF SCIENCE IN
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I am **malu. B** hereby declare that the dissertation entitled "EFFECT OF PARACETAMOL AND OKAMET COMPOUND ON GROWTH OF RADICLE IN *Vigna radiata*" is an authentic record of the original research carried out by me under the supervision and guidance of **Ms. Sainaba A A.**

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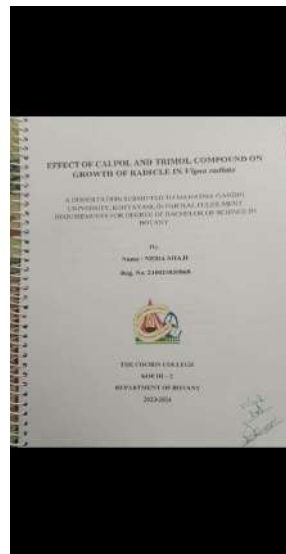
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PHARMACOLOGICAL, PHYTOCHEMICAL AND ANTIBACTERIAL STUDY OF GANDHARVAHASTADI KASHAYAM

DISSERTATION SUBMITTED TO
THE MAHATMA GANDHI UNIVERSITY, KOTTAYAM
IN PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR THE
DEGREE OF BACHELOR OF SCIENCE IN BOTANY

BY

ABHIRAMI R. S
REG NO: 210021039854



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Head of the Department of Botany

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PHARMACOLOGICAL, PHYTOCHEMICAL AND
ANTIBACTERIAL STUDY OF SAPTASARAM
KASHAYAM

DISSERTATION SUBMITTED TO
THE MAHATMA GANDHI UNIVERSITY, KOTTAYAM
IN PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR THE
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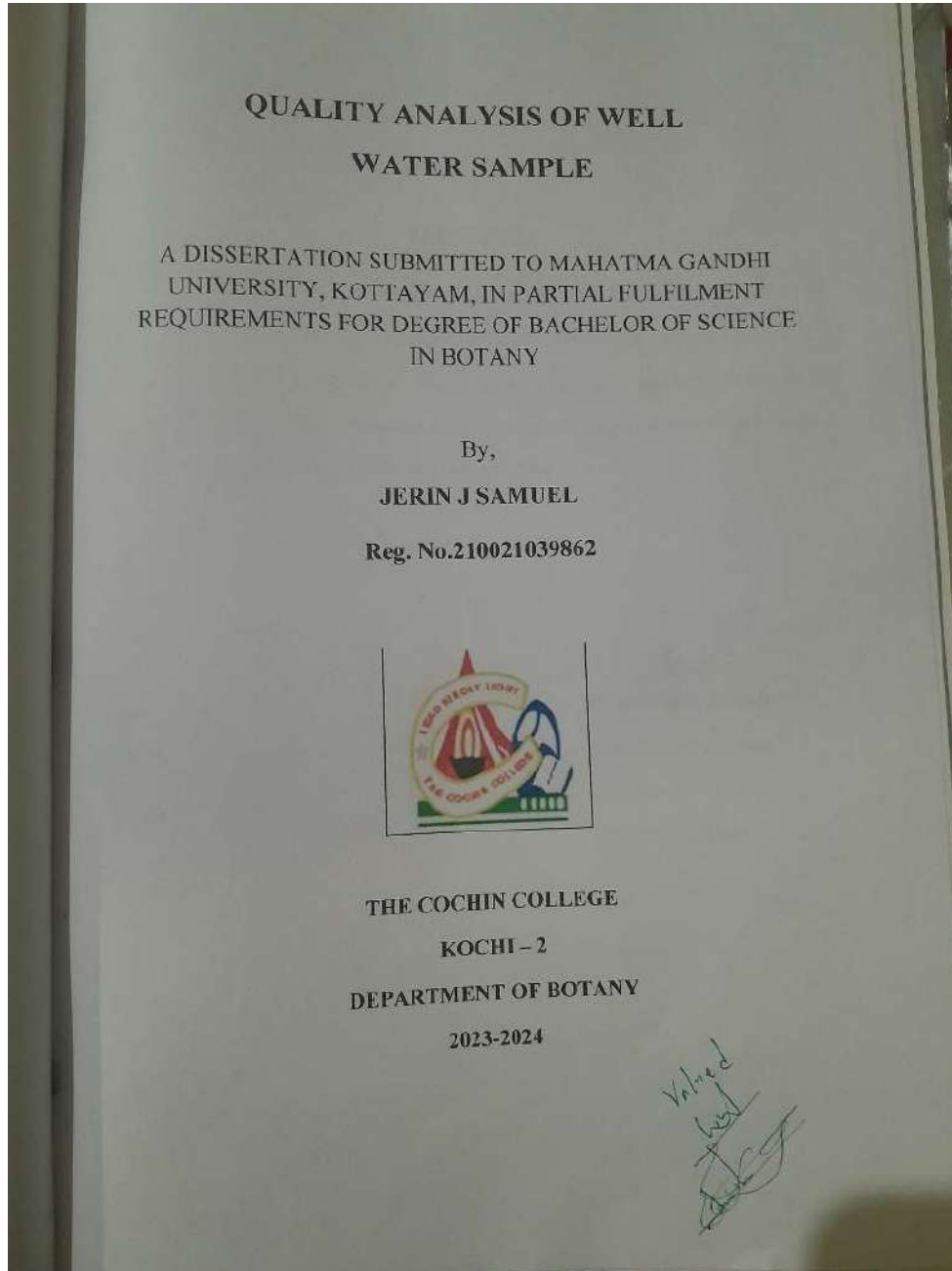
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 Department of Botany
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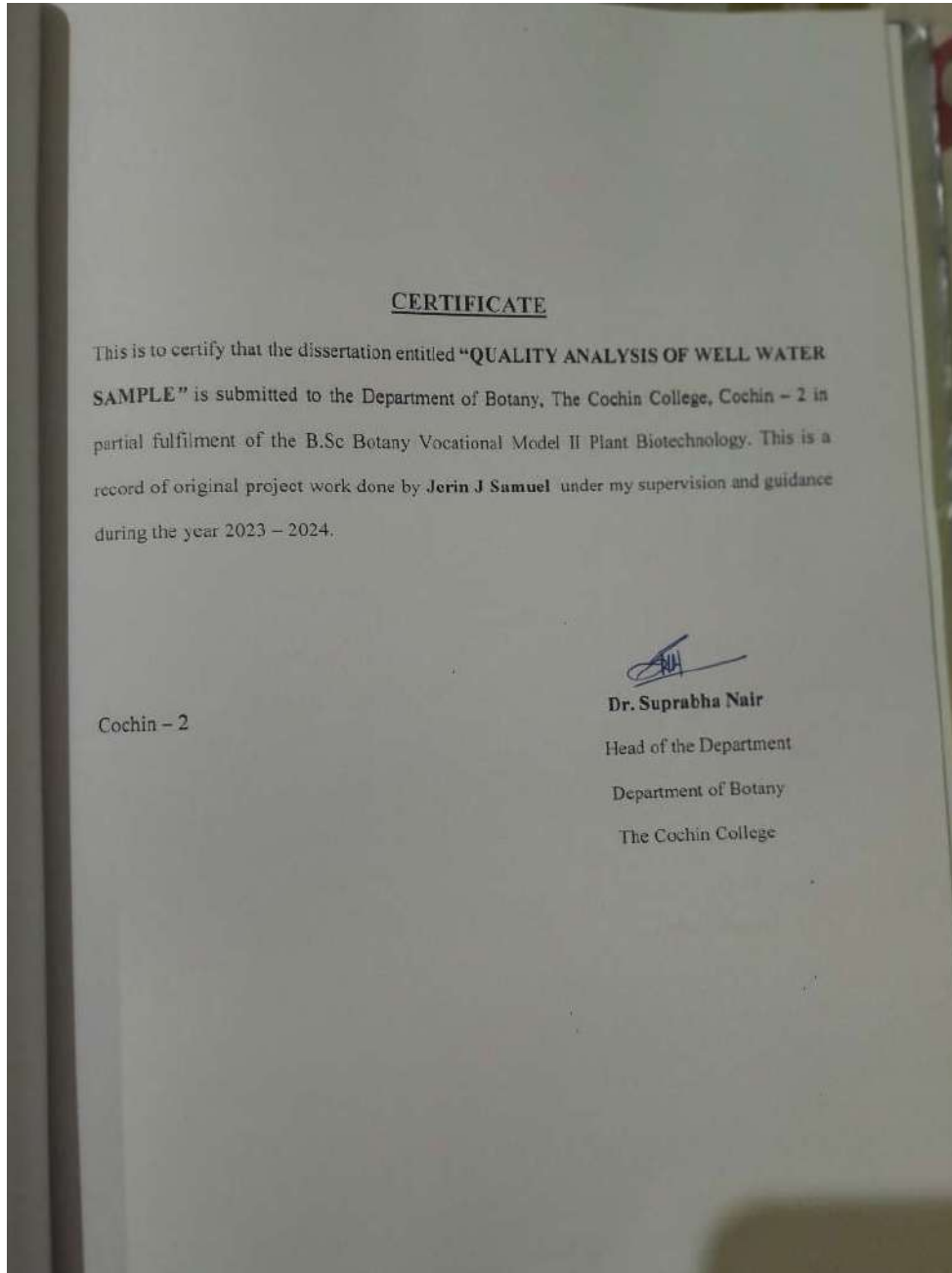
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Head of the Department

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QUALITY ANALYSIS OF MINERAL WATER SAMPLE

A DISSERTATION SUBMITTED TO MAHATMA GANDHI
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REQUIREMENTS FOR DEGREE OF BACHELOR OF SCIENCE
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By,

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A STUDY ON MORPHOLOGICAL AND ANATOMICAL PROFILING OF SPECIES *Barleria cristata* L.

DISSERTATION

Submitted to

MAHATMA GANDHI UNIVERSITY

*In partial fulfilment of the requirement for the award
of degree of*
BACHELOR OF SCIENCE IN BOTANY

BY

RAHMATH A.N.

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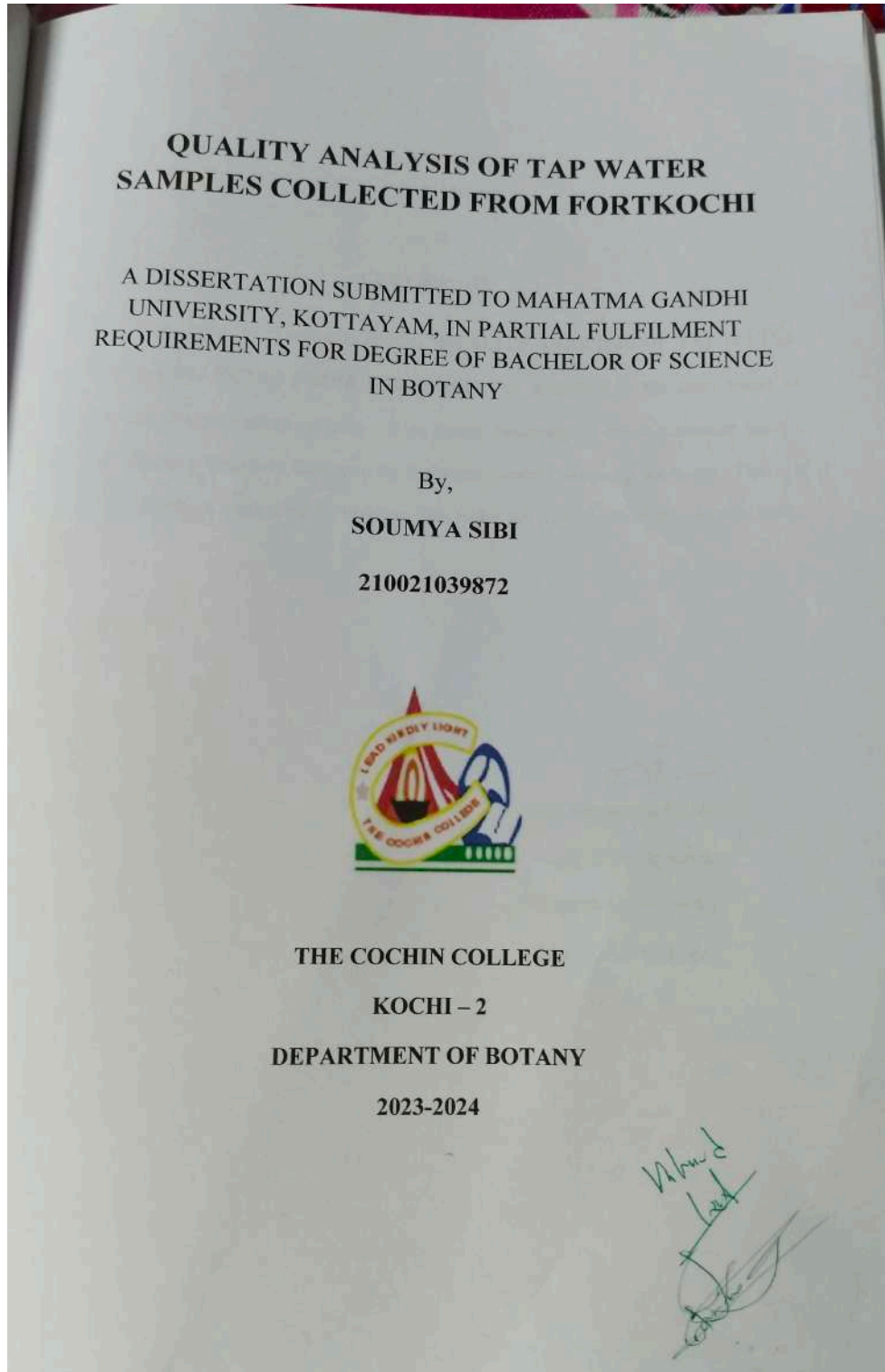
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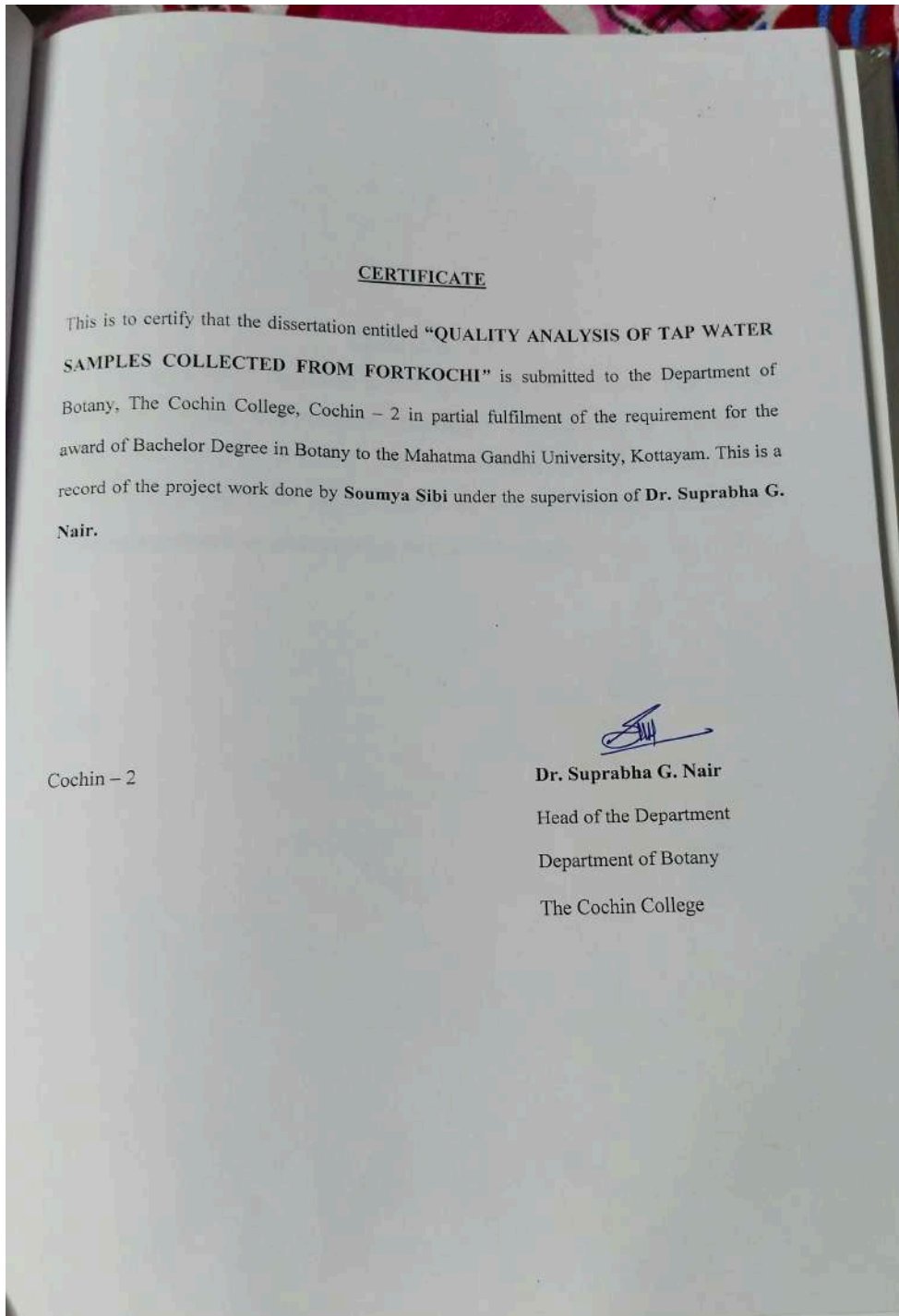
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EFFECT OF CALPOL AND TRIMOL COMPOUND ON GROWTH OF RADICLE IN *Vigna radiata*

A DISSERTATION SUBMITTED TO MAHATMA GANDHI
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By,

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PHARMACOLOGICAL, PHYTOCHEMICAL AND ANTIBACTERIAL STUDY OF SAPTASARAM KASHAYAM

DISSERTATION SUBMITTED TO
THE MAHATMA GANDHI UNIVERSITY, KOTTAYAM
IN PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR THE
DEGREE OF BACHELOR OF SCIENCE IN BOTANY

BY

MARY SANDRIYA
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Mrs. Vidhya Mahesh R.

The Department of Botany

The Cochin College

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April 2024





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PHARMACOLOGICAL, PHYTOCHEMICAL AND
ANTIBACTERIAL STUDY OF
GANDHARVAHASTADI KASHAYAM
DISSERTATION SUBMITTED TO
THE MAHATMA GANDHI UNIVERSITY, KOTTAYAM
IN PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR THE
DEGREE OF BACHELOR OF SCIENCE IN BOTANY

BY
KRISHNAPRIYA A. S
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DEPARTMENT OF BOTANY

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APRIL 2024

*Valued
kind
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Dr. Suprabha G Nair

Head of the Department of Botany

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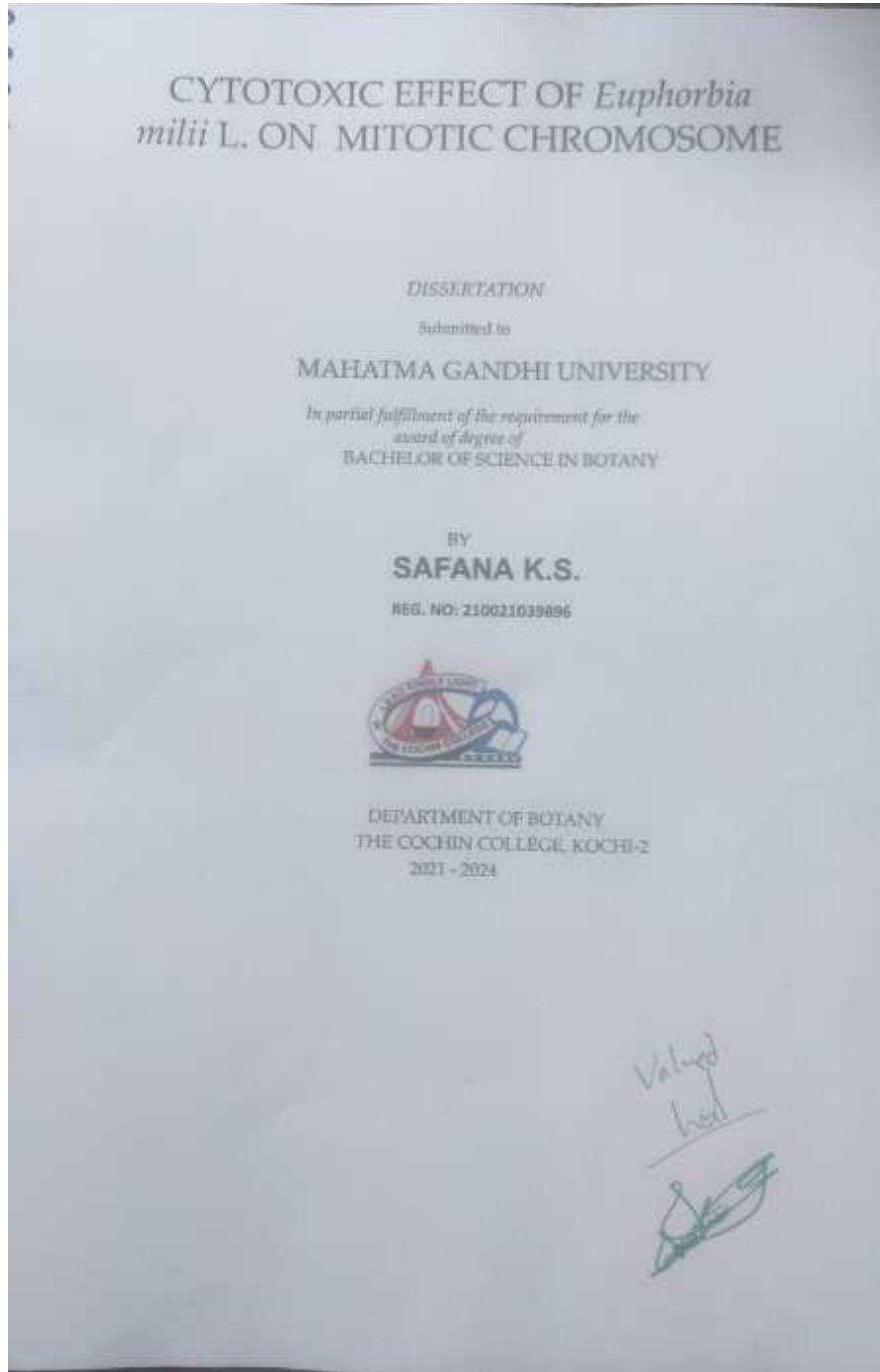
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This is to certify that the Dissertation entitled CYTOTOXIC EFFECT OF *Euphorbia milii* L. ON MITOTIC CHROMOSOME is an authentic record of original research done by SAFANA K S, under my supervision and guidance for the partial fulfillment of Bachelor of Science in Botany submitted to the Department of Botany, The Cochin College, Kochi - 2, affiliated to Mahatma Gandhi University, Kottayam. The dissertation has not formed the basis for the award of any degree, diploma, fellowship or similar title earlier. It is also certified by SAFANA K S has fulfilled the course requirements for the Bachelor of Science of this University.

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DECLARATION

I hereby declare that the project work entitled, CYTOTOXIC EFFECT OF *Euphorbia milii* L. ON MITOTIC CHROMOSOME is a bonafide record of the work carried out by me, under the supervision and guidance of Mr. ARUNKUMAR G., Assistant Professor, Department of Botany, The Cochin College, Kochi - 2. The dissertation has not formed the basis for the award of any degree, diploma, fellowship or similar title earlier.

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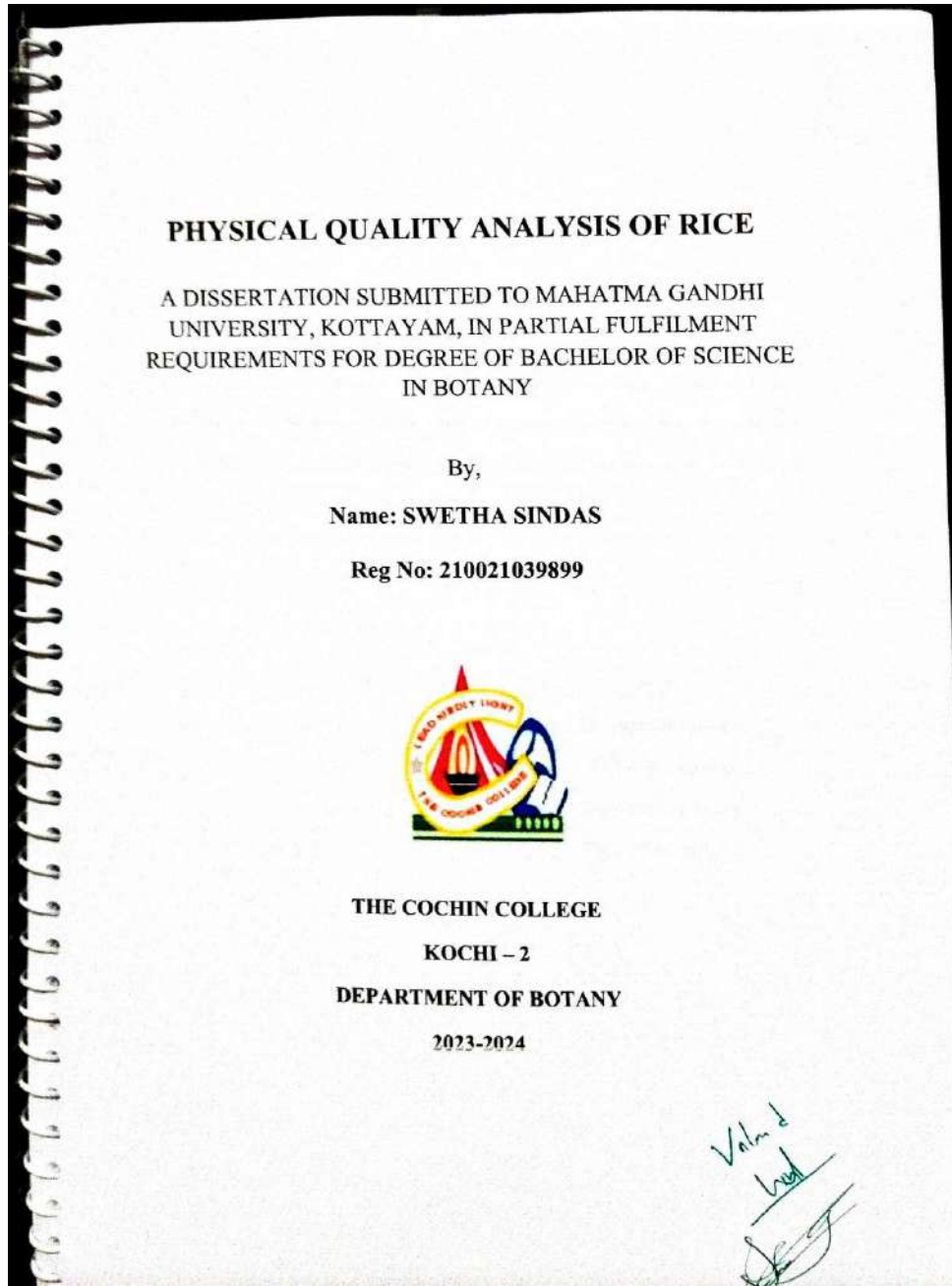
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Dr. Suprabha G Nair

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DECLARATION

I swetha sindas hereby declare that the dissertation entitled "PHYSICAL QUALITY ANALYSIS OF RICE" is an authentic record of the original research carried out by me under the supervision and guidance of Ms. Sainaba A A

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Swetha sindas

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